Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY
PATENT APPLICATION
TRANSMITTAL

4249.9US (99-0543.09/US) Attorney Docket No. First Inventor METHOD FOR BALL GRID ARRAY CHIP PACKAGES HAVING Title

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

See MPEP chapter 600 concerning utility patent application contents.

Fee Transmittal Form (e.g., PTO/SB/17)

(Submit an original and a duplicate for fee processing)

Applicant claims small entity status.

(preferred arrangement set forth below)

- Cross Reference to Related Applications

- Reference to sequence listing, a table, or a computer program listing appendix

- Brief Description of the Drawings (if filed)

- Statement Regarding Fed sponsored R & D

- Descriptive title of the Invention

- Background of the Invention - Brief Summary of the Invention

- Detailed Description

- Abstract of the Disclosure

Drawing(s) (35 U.S.C.113)

1.63(d)(2) and 1.33(b).

a. Newly executed (original or copy)

i. DELETION OF INVENTOR(S)

b. Copy from a prior application (37 CFR 1.63 (d))

Signed statement attached deleting inventor(s)

named in the prior application, see 37 CFR

- Claim(s)

5. Oath or Declaration

See 37 CFR 1.27.

Specification

1. 🛛

2.

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4. 🔯

Sianature

APPLICATION ELEMENTS

[Total Pages

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IMPROVED TESTING AND STACKING CHARACTERISTICS Express Mail Label No. Mail Stop Patent Application Commissioner for Patents ADDRESS TO: Alexandria, VA 22313-1450 CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. 🗌 paper c.

Statements verifying identity of above copies **ACCOMPANYING APPLICATIONS PARTS** 9. 🔲 Assignment Papers (cover sheet & document(s)) 10. 🔲 37 C.F.R.§3.73(b) Statement Power of Attorney (when there is an assignee) 11. 🔲 English Translation Document (if applicable) 12. 🛛 ☐ Copies of IDS Information Disclosure] Statement (IDS)/PTO-1449 Citations 13. 🔲 **Preliminary Amendment** 14. 🛛 Return Receipt Postcard (MPEP 503) (Should be specifically itemized) (for a continuation/divisional with Box 18 completed) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. 🗌 Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.

Date

July 29, 2003

6. Application Data Sheet. See 37 CFR 1.76					17. 🗆	Other:			
or in an App Contin Prior app For CONTIN under Box 5	olication Data Sho nuation [olication information IUATION or DIVIS 5b, is considered	_	76: ☐ Conti J. Holling The entir ure of th	nuation-in-part iton re disclosure e e accompany	(CIP) of the prior a	of pri application, tonal applicat	ior application Group / Art from which a tion and is h	n No: 10 / 008 Unit: 2829 In oath or dec ereby incorpo	8,843 Claration is supplied orated by reference.
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Name (Print/Type) James R. Duzan Registration No.					on No. (Attorney/Agent) 28,393				

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TO ANOMITTAL	Complete if Known				
FEE TRANSMITTAL	Application Number	Not yet assigned July 29, 2003			
for FY 2003	Filing Date				
	First Named Inventor	Tay et al.			
Effective 01/01/2003. Patent fees are subject to annual revision.	Examiner Name	Unknown			
☐ Applicant claims small entity status. See 37 CFR 1.27	Group / Art Unit	Unknown			
TOTAL AMOUNT OF PAYMENT (\$) 1086.00	Attorney Docket No.	4249.9US (99-0543.09/US)			

METHOD OF PAYMENT (check all that apply)					FEE CALCULATION (continued)					
					3. ADDITIONAL FEES					
☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None Order					Large	Entity	Small E	ntity		
Deposit Account:						Fee	Fee	Fee	Esa Danaviation	Ess Daid
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Number	L				1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
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Account Name	TraskBritt				1812	2,520	1812	2,520	For filing a request for reexamination	
	oner is autho	orized to: (check a	ll that apply)		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
☐ Charge fee(s ☐ Charge any	i) indicated be additional fee	elow 🔯 Credit and (s) during the pend	y overpayments lency of this app		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
		elow, except for ti	e filing fee		1251	110	2251	55	Extension for reply within first month	
to the above-ide		E CALCULATION			1252	410	2252	205	Extension for reply within second month	
1. BASIC F	ILING FEE				1253	930	2253	465	Extension for reply within third month	
Large Entity	Small Entity	-			1254	1,450	2254	725	Extension for reply within fourth	
Fee Fee Code (\$)	Fee Fee Code (\$)			e Paid	1255	1,970	2255	985	Extension for reply within fifth month	
1001 750	2001 375		750		1401	320	2401	160	Notice of Appeal	
1002 330	2002 165	, ,	<u> </u>	' —	1402	320	2402	160	Filing a brief in support of an appeal	
1003 520	2003 260		-		1403	280	2403	140	Request for oral hearing	
1004 750	2004 375	Reissue filing f			1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 160	2005 80	Provisional filli	ng fee		1452	110	2452	55	Petition to revive – unavoidable	
SUBTOTAL (1) (\$) 750					1453	1,300	2453	650	Petition to revive - unintentional	
					1501	1,300	2501	650	Utility issue fee (or reissue)	
2. EXTRA CLA	IM FEES	_	_		1502	470	2502	235	Design issue fee	
		Extra Claims	Fee from below	Fee Paid	1503	630	2503	315	Plant issue fee	
Total Claims 7	-20 **	= 0 x	18 =	0	1460	130	1460	130	Petitions to the Commissioner	
Independent				1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)		
Claims 7	-3 **	= 4 X	84 =	336	1806	180	1806	180	Submission of Information Disclosure Stmt	
Multiple Dependent		х	= [0	8021	40	8021	40	Recording each patent assignment per property (times number of	
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Fee Fee Code (\$)	Fee Code	Fee Fee Desc	ription		1809	750	2809	375	Filing a submission after final rejection (37 CFR § 1.129(a))	1
1202 18	2202	9 Claims in	excess of 20		1810	750	2810	375	For each additional invention to be	
1201 84	2201	42 Independe	ent claims in exce	ss of 3		ļ			examined (37 CFR § 1.129(b))	
1203 280	2203	•	ependent claim, it	•	1801	750	2801	375	Request for Continued Examination (RCE)	
1204 84	2204	42 ** Reissue original pa	independent cla itent	ims over	1802	900	1802	900	Request for expedited examination	
1205 18	2205	9 ** Reissue over origin	claims in excess al patent	s of 20 and					of a design application	
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SUBMITTED BY Complete (if applicable)										
Name (Print/Type)	James R. Duzan	James R. Duzan Registration No. Attorney/Agent)		Telephone	801-532-1922					
Signature	Sames	R. Sugar		Date	July 29, 2003					

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